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l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/828,546	04/19/2004	Kern W. Wong	P05310C1	3883	
	23990 DOCKET CLE	7590 03/26/2007 CRK		EXAMINER		
	P.O. DRAWER			LAXTON, GARY L		
DALLAS, TX 75380		/5380		ART UNIT	PAPER NUMBER	
				2838		
		<u> </u>				
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE			
3 MONTHS		NTHS	03/26/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicat	ion No.	Applicant(s)				
		10/828,5	46	WONG ET AL.				
Office Action Summary			r	Art Unit				
		Gary L. L		2838				
Period fo	The MAILING DATE of this commu r Reply	nication appears on th	e cover sheet wit	h the correspondence a	ddress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Issions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com- period for reply is specified above, the maximum s re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no er munication. tatutory period will apply and v y will, by statute, cause the ap	HIS COMMUNIC vent, however, may a re will expire SIX (6) MONT plication to become ABA	ATION. ply be timely filed "HS from the mailing date of this ANDONED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) fil	ed on <i>25 July 2006.</i>						
2a)□	•	2b)⊠ This action is	non-final.	•	·			
·—		<i>,</i> —		ers, prosecution as to th	ie merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims							
•	Claim(s) 23,24 and 27-48 is/are pe	nding in the application	on.					
•	4a) Of the above claim(s) is/a				$\mathcal{L}_{\mathcal{L}}}}}}}}}}$			
	Claim(s) 23,24,27,38,39,41,42 and		•					
6)⊠								
7) 🖾	Claim(s) 30,31 and 33-37 is/are ob							
• —	Claim(s) are subject to restri		requirement.					
Applicati	on Papers							
• •	The specification is objected to by the	ne Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including				CFR 1.121(d).			
11)	The oath or declaration is objected		•					
Priority (ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
	See the attached detailed Office acti	on for a list of the cer	tified copies not	received.				
Attachmen	• •		4) Interview S	Summary (PTO-413)				
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review mation Disclosure Statement(s) (PTO/SB/08 er No(s)/Mail Date		Paper No(s	s)/Mail Date formal Patent Application				
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 28, 29, 32, 40, 43, 44, 45, 47 and 48 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 44 and 48 rejected under 35 U.S.C. 102(e) as being anticipated by Guenot et al (US 6,529,066).

Guenot et al. disclose a band-gap reference circuit, comprising: a current source (6B) for generating a current; a circuit branch comprising a resistor connected in series with a first base-emitter diode (R1, 8B), wherein the current from the current source develops a combined voltage across the resistor and the first base-emitter diode; a second base-emitter diode (8A); an adjustment circuit (12) for adjusting a band-gap reference voltage based on the combined voltage and a base-emitter voltage of the second base-emitter diode; and a correction circuit (32) coupled

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to the adjustment circuit and cooperable with the adjustment circuit for at least "partially" offsetting a drop-off in the band-gap reference voltage caused by the second base-emitter diode (e.g. Guenot et al. disclose a band-gap reference circuit, comprising: a current source for generating a current; a circuit branch comprising a resistor connected in series with a first base-emitter diode, wherein the current from the current source develops a combined voltage across the resistor and the first base-emitter diode; a second base-emitter diode; an adjustment circuit for adjusting a band-gap reference voltage based on the combined voltage and a base-emitter voltage of the second base-emitter diode; and a correction circuit coupled to the adjustment circuit and cooperable with the adjustment circuit for at least "partially" offsetting a drop-off in the band-gap reference voltage caused by the second base-emitter diode (e.g. Vboost).

4. Claims 44 and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Opris (US 6,121,824).

Opris discloses a band-gap reference circuit, comprising: a current source (I) for generating a current; a circuit branch comprising a resistor connected in series with a first base-emitter diode (R1, Q_L), wherein the current from the current source (I) develops a combined voltage across the resistor and the first base-emitter diode; a second base-emitter diode (Q1); an adjustment circuit (A1) for adjusting a band-gap reference voltage based on the combined voltage and a base-emitter voltage of the second base-emitter diode; and a correction circuit coupled to the adjustment circuit and cooperable with the adjustment circuit for at least "partially" offsetting a drop-off in the band-gap reference voltage caused by the second base-emitter diode (fig. 2).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 28, 29, 32, 40, 43 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guenot et al. in view of Marty.

Guenot et al. discloses a bandgap reference circuit having a current source (6A, 6B or 6C); a circuit branch(s) (6A & 6B) with positive and negative temperature coefficients as claimed; further base emitter diode (8A) adjustment circuit (32 & Vboost) for "partially offsetting the voltage drop from (8A).

However, Guenot et al. does not disclose a startup circuit.

Marty a regulator circuit including a startup circuit (20) connected to the output of an adjustment circuit (5) for ensuring proper startup of the regulator circuit.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Guenot et al. to include a startup circuit to ensure the proper startup of the circuit as taught by Marty.

7. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Guenot et al. in view of May.

Guenot et al. discloses a bandgap reference circuit having a current source (6A, 6B or 6C); a circuit branch(s) (6A & 6B) with positive and negative temperature coefficients as